

Product fiche according to Commission Delegated Regulation (EU) 811/2013

Model		AEYC-0649ZU-CH		AEYC-0849ZU-CH		AEYC-1249ZU-CH		AEYC-0449ZU-CH1		AEYC-0649ZU-CH1		AEYC-1049ZU-CH1		
Temperature application	°C	55	35	55	35	55	35	55	35	55	35	55	35	
Seasonal space heating energy efficiency class		A++	A+++	A++	A+++	A++	A+++	A++	A+++	A++	A+++	A++	A+++	
Rated heat output	kW	5	5	7	7	11	11	5	5	7	7	11	11	
Seasonal space heating energy efficiency		%	130	179	135	178	142	187	129	176	134	175	141	184
Annual energy consumption		kWh	2936	2419	3947	3178	6011	4871	3003	2400	4034	3153	6146	4835
Specific precautions in assembled, installed or maintained		Refer to the installation and operating manuals.												
Rated heat output	Colder climate	kW	-	-	-	-	-	-	-	-	-	-	-	-
	Warmer climate	kW	5	5	7	7	11	11	5	5	7	7	11	11
Annual energy consumption	Colder climate	kWh	-	-	-	-	-	-	-	-	-	-	-	-
	Warmer climate	kWh	1557	1113	2020	1467	3041	2247	1586	1077	2057	1411	3096	2163
Seasonal space heating energy efficiency	Colder climate	%	-	-	-	-	-	-	-	-	-	-	-	-
	Warmer climate	%	166	248	183	245	185	254	166	252	183	250	185	259
Sound power level(A7W55)	Outdoor unit	dB	56		57		59		54		54		54	

### Specifications

Model		AEYC-0649ZU-CH		AEYC-0849ZU-CH		AEYC-1249ZU-CH		AEYC-0449ZU-CH1		AEYC-0649ZU-CH1		AEYC-1049ZU-CH1		
Type		Heating and Cooling Monobloc Type												
Power source		1Ø ~230 V 50 Hz												
Max. current	A	12.0		16.6		24.0		12.0		16.6		24.0		
Max. pressure	MPa	3.5												
Refrigerant (R290)	kg	0.50		0.85		1.15		0.50		0.85		1.15		
Dimension (H × W × D) & weight (NET)	Outdoor unit	mm	886 × 1,000 × 330				1,418 × 1,000 × 330		886 × 1,000 × 330				1,418 × 1,000 × 330	
		kg	66		82		117		66		82		117	
Outdoor temperature range	Heating	°C	-25 to 45											
	Cooling	°C	15 to 45											

### ● Acoustic Noise Information:

According to EN 12102.

- If the air to water heat pump is operated under higher temperature conditions than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling modes, if the unit is used under conditions of lower temperatures than those listed above, the heat exchanger may freeze, leading to water leakage and other damage.
- Do not use this unit for any purposes other than the Heating and Cooling.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The appliance is accessible to the general public.
- Only start up the unit when the outside temperature is -20°C or higher.

Product information according to Commission Delegated Regulation (EU) 813/2013  
Product information is based on the average climate condition and medium-temperature.

Model			AEYC-0649ZU-CH		AEYC-0849ZU-CH		AEYC-1249ZU-CH		AEYC-0449ZU-CH1		AEYC-0649ZU-CH1		AEYC-1049ZU-CH1																			
			55	35	55	35	55	35	55	35	55	35	55	35	55	35																
Air-to-water heat pump			YES		YES		YES		YES		YES		YES																			
Water-to-water heat pump			NO		NO		NO		NO		NO		NO																			
Brine-to-water heat pump			NO		NO		NO		NO		NO		NO																			
Low-temperature heat pump			NO		NO		NO		NO		NO		NO																			
Equipped with a supplementary heater			NO		NO		NO		NO		NO		NO																			
Heat pump combination heater			NO		NO		NO		NO		NO		NO																			
Temperature application			°C		55		35		55		35		55		35																	
Rated heat output (*)			P <sub>rated</sub>		kW		5		5		7		7		11		11															
Seasonal space heating energy efficiency			$\eta_s$		%		130		179		135		178		142		187		129		176		134		175		141		184			
Declared capacity for heating for part load at outdoor temperature T <sub>j</sub>			T <sub>j</sub> = -7° C		P <sub>dh</sub>		kW		4.19		4.71		5.83		6.16		9.34		9.90		4.26		4.60		5.92		6.02		9.49		9.68	
			T <sub>j</sub> = +2° C		P <sub>dh</sub>		kW		2.60		3.03		3.48		3.86		5.73		5.92		2.62		2.86		3.51		3.65		5.78		5.59	
			T <sub>j</sub> = +7° C		P <sub>dh</sub>		kW		1.67		1.87		2.36		2.52		3.58		3.80		1.57		1.78		2.22		2.40		3.38		3.61	
			T <sub>j</sub> = +12° C		P <sub>dh</sub>		kW		1.49		1.66		2.25		2.41		3.03		3.34		1.47		1.61		2.23		2.34		3.00		3.24	
			T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>		kW		4.19		4.71		5.83		6.16		9.34		9.90		4.26		4.60		5.92		6.02		9.49		9.68	
			T <sub>j</sub> = operation limit temperature		P <sub>dh</sub>		kW		3.79		4.26		5.60		5.93		8.48		9.04		3.83		4.13		5.66		5.75		8.57		8.76	
			T <sub>j</sub> = -15° C (if TOL < -20° C)		P <sub>dh</sub>		kW		-		-		-		-		-		-		-		-		-		-		-		-	
			Bivalent temperature		T <sub>biv</sub>		°C		-7		-7		-7		-7		-7		-7		-7		-7		-7		-7		-7		-7	
			Cycling interval capacity for heating		P <sub>cyh</sub>		kW		Not applicable																							
			Degradation co-efficient (**)		C <sub>dh</sub>		-		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9		0.9	
Declared coefficient of performance or primary energy ratio for part load at outdoor temperature T <sub>j</sub>			T <sub>j</sub> = -7° C		COP <sub>d</sub>		-		1.94		2.70		2.01		2.72		2.23		3.00		1.99		2.66		2.05		2.68		2.28		2.96	
			T <sub>j</sub> = +2° C		COP <sub>d</sub>		-		3.24		4.43		3.29		4.43		3.43		4.37		3.25		4.33		3.30		4.33		3.45		4.27	
			T <sub>j</sub> = +7° C		COP <sub>d</sub>		-		4.55		6.46		4.87		6.11		5.04		6.92		4.29		6.38		4.59		6.03		4.74		6.83	
			T <sub>j</sub> = +12° C		COP <sub>d</sub>		-		6.48		7.52		6.98		8.13		6.93		9.28		6.46		7.76		6.96		8.39		6.91		9.59	
			T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>		-		1.94		2.70		2.01		2.72		2.23		3.00		1.99		2.66		2.05		2.68		2.28		2.96	
			T <sub>j</sub> = operation limit temperature COP <sub>d</sub>		COP <sub>d</sub>		-		1.74		2.47		1.78		2.55		1.98		2.71		1.77		2.42		1.82		2.51		2.02		2.67	
			T <sub>j</sub> = -15° C (if TOL < -20° C)		COP <sub>d</sub>		-		-		-		-		-		-		-		-		-		-		-		-		-	
			Operation limit temperature		TOL		°C		-10		-10		-10		-10		-10		-10		-10		-10		-10		-10		-10		-10	
			Cycling interval efficiency		COP <sub>cyh</sub>		-		Not applicable																							
			Heating water operating limit temperature		WTOL		°C		75		75		75		75		75		75		75		75		75		75		75		75	
Power consumption in modes other than active mode			Off mode		POFF		kW		0.005		0.005		0.011		0.010		0.006		0.005		0.005		0.005		0.011		0.010		0.006		0.005	
			Thermostat-off mode		PTO		kW		0.021		0.027		0.012		0.012		0.033		0.041		0.025		0.021		0.012		0.012		0.033		0.041	
			Standby mode		PSB		kW		0.005		0.005		0.011		0.010		0.006		0.005		0.025		0.005		0.011		0.010		0.006		0.005	
			Crankcase heater mode		PCK		kW		0		0		0		0		0		0		0		0		0		0		0		0	
Supplementary heater			Rated heat output (*)		P <sub>sup</sub>		kW		0.9		1.1		1.0		1.0		2.1		2.2		1.0		1.1		1.0		1.1		2.2		2.2	
			Type of energy input				-		-		-		-		-		-		-		-		-		-		-		-		-	
Other items			Capacity control				Remote Controller																									
			Sound power level (***)		LWA		dB		56				57				59				54				54							
			Emissions of nitrogen oxides		NO <sub>x</sub>		mg/kWh		Not applicable																							
			Rated air flow rate		-		m <sup>3</sup> /h		2119		2561		2700		2119		4492		3614		2119		2119		1865		2119		2489		3614	
Contact details			<p style="text-align: center;"> <b>CHOFU SEISAKUSHO Co.,Ltd</b>  2-1 CHOFU OHGIMACHI, SHIMONOSEKI CITY,  YAMAGUCHI PREF.,JAPAN </p>																													

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output P<sub>rated</sub> is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup (T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0.9.

(\*\*\*) Test condition : A7W55

**CHOFU SEISAKUSHO Co.,Ltd.**

2-1 CHOFU OHGIMACHI, SHIMONOSEKI C.,  
YAMAGUCHI PREF., 752-8555, JAPAN